

Hostaform® C 9021 LS

Acetal (POM) Copolymer

Celanese Corporation

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

POM copolymer

Standard Injection molding type, UV-stabilized with UV-stabilizers.; good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance; high resistance to thermal and oxidative degradation.

Burning rate ISO 3795 and FMVSS 302 < 100 mm/min for a thickness more than 1 mm.

FMVSS = Federal Motor Vehicle Safety Standard (USA)

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet - ISO (English)
Search for UL Yellow Card	• Celanese Corporation • Hostaform®
Availability	• Europe • North America
Additive	• UV Stabilizer
Features	• Alkali Resistant • Fuel Resistant • Chemical Resistant • Hydrolysis Resistant • Solvent Resistant
RoHS Compliance	• Contact Manufacturer
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density	1.41 g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	8.00 cm ³ /10min	ISO 1133
Molding Shrinkage		ISO 294-4
Across Flow	1.8 %	
Flow	2.0 %	
Water Absorption (Saturation, 23°C)	0.65 %	ISO 62
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	2850 MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	64.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	9.0 %	ISO 527-2/1A/50
Nominal Tensile Strain at Break	30 %	ISO 527-2/1A/50
Tensile Creep Modulus		ISO 899-1
1 hr	2500 MPa	
1000 hr	1300 MPa	
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-30°C	6.0 kJ/m ²	
23°C	6.5 kJ/m ²	
Charpy Unnotched Impact Strength		ISO 179/1eU
-30°C	160 kJ/m ²	
23°C, Partial Break	180 kJ/m ²	
Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		ISO 75-2/A
1.8 MPa, Unannealed	104 °C	
Melting Temperature ³	166 °C	ISO 11357-3
CLTE - Flow	1.1E-4 cm/cm/°C	ISO 11359-2



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Electrical	Nominal Value Unit	Test Method
Surface Resistivity	1.0E+14 ohms	IEC 60093
Volume Resistivity	1.0E+14 ohms·cm	IEC 60093
Electric Strength	35 kV/mm	IEC 60243-1
Relative Permittivity		IEC 60250
100 Hz	4.00	
1 MHz	4.00	
Dissipation Factor		IEC 60250
100 Hz	2.0E-3	
1 MHz	5.0E-3	
Comparative Tracking Index	600 V	IEC 60112

Injection	Nominal Value Unit
Processing (Melt) Temp	190 to 210 °C
Mold Temperature	80 to 120 °C
Screw L/D Ratio	15.0:1.0 to 20.0:1.0

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ 10°C/min

